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Iron powder was mixed with finely crushed basalt, cold pressed and then sintered at 1350° to 1360° C. This sintering remperature is in the softening range of basalt which has a melting point of 1390° C. The resultant material was extremely hard and could be shaped only by grinding with corundum and dispend wheels. or diamond wheels. Brimmell-scale hardness tests were taken because of the unavailability of a microhardness tester. The exact hardness measurements were not reported. It was determined that because of the large presses required, the naterial was not adaptable for the namefacture of water pipes. It was believed, however, that the material might be adaptable for other uses, particularly where corrosion and erosion resistance are required, as for example in liners and water wheel blades.

The universal hard metal 15 was developed at the BC. laboratory 1/ by Kohlerman On a microphotograph of this material, taken at magnification 1200X, an extremely finely grained structure could be observed. Sodium silicate was added to 15 to refine the granular structure. The resultant material has been used successfully in Bast Germany and has made possible a useful standardization of a wide variety of cuuting tools and, in andition, has eliminated the necessity of keeping stockpiles of various types of tool bits.

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5X1	1. Comment: This laboratory developed and produ	uced contact	s of tungston
5X1	combined with copper,		02 0411,0001
3X I	2. Comment: Probably Eisen- und Huet enwer	rke Thale, o	f SAG Marten.
5X1	3. Comment: VEB Halbzeugwerk Auerhammer.	Aue. Saxony.	